

Appl. No. 09/737,226
Arndt. Dated July 30, 2004
Reply to Office Action of May 7, 2004

AMENDMENTS TO THE SPECIFICATION

Please insert the following paragraph on page 10 at line 11:

--Fig. 10 is a side sectional elevational diagrammatic view of another construction of the multi-wavelength optical communication system according to this invention. As previously explained in reference to Figs. 5-9, a number of emitters (not shown) each emits radiation at a different wavelength, and a plurality of detectors 20h each senses radiation at a different wavelength corresponding to the radiation from one of the emitters. Here, the shared waveguide 12h is defined as a confined area with control layer 94h and substrate 30h. The shared waveguide 12h may also include dispersive particles 132, sized for the particular wavelengths in use, so that each wavelength is spread throughout the shared waveguide 12h. Just as explained in reference to Figures 8 and 9, control layer 94h can be fabricated on substrate 30h, or it can be fabricated directly on the substrate 30h. Also, the underside of layer 94h may be a reflective material or may be coated with a reflective material (e.g., silver) to enhance its reflective properties.--